IN THE CLAMS:

interest over time.

Please amend the claims as follows:

- 1. (currently amended) A method for stabilizing an image plane in medical imaging, the method comprising:
- (a) tracking motion within a region <u>inside a patient</u>, the tracking being with scan data representing the region inside the patient; [[and]]
- (b) automatically altering an acquisition scan plane position relative to a transducer as a function of the motion, the acquisition scan plane position being for acquiring subsequent scan data with a same scanner used for tracking the motion; and

generating an image with the subsequent scan data.

- 2. (original) The method of Claim 1 wherein (a) comprises performing one of a cross-correlation and a sum of absolute differences.
- 3. (original) The method of Claim 1 wherein (a) comprises comparing data from a first acquisition with data from a second acquisition.
- 4. (original) The method of Claim 1 wherein (b) comprises translating and rotating an acquisition scan plane to the acquisition scan plane position.
- 5. (original) The method of Claim 1 further comprising:
 - (c) scanning the region with ultrasound energy;
 - (d) receiving input designating a region of interest within the region; wherein (b) comprises maintaining the acquisition scan plane position at the region of

6. (currently amended) The method of Claim 1 wherein (a) comprises tracking the motion within the region, the region being a three-dimensional volume, and wherein (b) comprises

altering the acquisition scan plane position, relative to the transducer, the transducer being a multi-dimensional array of elements, the alteration maintaining an acquisition scan plane at a region of interest within the three-dimensional volume over time, wherein the transducer comprises a multi-dimensional array of elements.

- 7. (original) The method of Claim 6 further comprising:
 - (c) electronically steering acoustic energy across the acquisition scan plane; wherein (a), (b) and (c) are repeated.
- 8. (original) The method of Claim 6 wherein (a) comprises transmitting acoustic energy to at least three sub-regions of the three-dimensional volume without acquiring data for the entire three-dimensional volume.
- 9. (original) The method of Claim 8 further comprising:
- (c) scanning a representative sample of the entire three-dimensional volume; wherein (a) comprises comparing data responsive to the acoustic energy transmitted to the at least three sub-regions with data responsive to the representative sample.
- 10. (original) The method of Claim 8 wherein (a) comprises:
- (a1) transmitting at least three grouped sets of beams spaced apart within the three-dimensional volume;
- (a2) determining a direction and a magnitude of motion from data responsive to the at least three grouped sets of beams for each of the at least three grouped sets of beams;

wherein (b) comprises altering the acquisition scan plane position as a function of the at least three directions and at least three magnitudes.

11. (currently amended) The method of Claim 1 wherein (b) comprises adaptively altering the acquisition scan plane position in response to the motion;

further comprising:

- (c) <u>subsequently</u>repetitively scanning <u>at</u> the adaptively <u>altered</u>positioned acquisition scan plane[[s]] <u>position</u>; and
 - (d) generating two-dimensional images responsive to (c).
- 12. (original) The method of Claim 11 further comprising:
- (e) shifting the two-dimensional images as a function of an initial position of the region of interest.
- 13. (original) The method of Claim 1 further comprising:
 - (c) identifying at least one feature within the region; wherein (a) comprises tracking motion of the at least one feature.
- 14. (original) The method of Claim 1 wherein (a) comprises tracking one of speckle and a spatial gradient.
- 15. (original) The method of Claim 1 further comprising:
- (c) adjusting a tracking parameter for (a) as a function of a position of a tracking location within the region.
- 16-22. (cancelled)
- 23. (original) The method of Claim 1 further comprising:
- (c) obtaining data for motion tracking in response to different acquisition parameters than used for imaging.
- 24. (original) The method of Claim 1 wherein (b) comprises automatically altering an acquisition volume position relative to a transducer as a function of the motion.

25.	(previously presented) The method of Claim 1 wherein (a) comprises tracking, with a
proces	sor, the motion from data representing at least a portion of the region acquired at different
times.	